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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/637,095	08/08/2003	John F. Nolan	XP-1134	5050
7590	07/14/2005		EXAMINER NGUYEN, PHILLIP	
Agfa Corporation Law & Patent Department 200 Ballardvale Street Wilmington, MA 01887-1069			ART UNIT	PAPER NUMBER
			2828	

DATE MAILED: 07/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/637,095	NOLAN, JOHN F.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Phillip Nguyen	2828	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

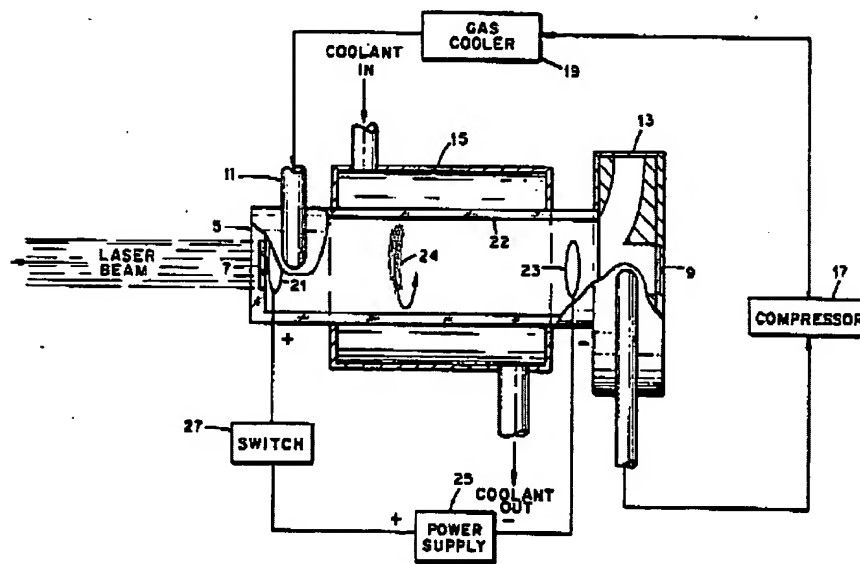
- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>8/3/03</u> . | 6) <input type="checkbox"/> Other: ____.  |

**DETAILED ACTION*****Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

Claims 1, 3-5, 9, and 11-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Zerr ('646).



With respect to claims 1 and 9, Zerr discloses in the drawing a cooling system comprising a light source, said cooling system comprising a coolant loop (coolant out and coolant in pipe) for cooling the light source with a coolant; a pneumatically operated cooler for removing heat from the coolant wherein the cooler is a vortex cooler (col. 3, lines 54-55).

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With respect to claim 3, Zerr further discloses a heat exchanger for removing heat from the coolant (col. 5, lines 40-41).

With respect to claim 4, it is inherent to locate the heat exchanger in the coolant loop downstream of the light source and upstream of the cooler to remove the heat from the coolant.

With respect to claim 5, Zerr also teaches a fan/ air blower (col. 1, line 30).

Claims 11-21 further recites a method for cooling a light source. Since Zerr discloses the product, it is inherent product by process for performing the method as recited in the claims.

***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2, 6-8, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zerr ('646) in view of Kleisle et al. ('981).

With respect to claim 2, Zerr discloses the claimed invention except for explicitly showing the coolant is water. Kleisle discloses in Figure 1 the claimed invention with a cooling system for a light source 14. For the improvement of the cooling system, it

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would have been obvious to the one having ordinary skill in the art at the time the invention was made to provide water as coolant since it is well known in the art.

With respect to claims 6-8, Zerr does not disclose a cooling loop controller for controlling the cooler to control a temperature of the coolant to the light source. Kleisle discloses the claimed invention along with temperature controller unit 10.

With respect to claim 10, Zerr discloses the vortex cooler receiving pressurize air from compressor 17. However, Zerr does not teach a platesetter or imagesetter of an imaging engine. It is obvious to use the vortex cooler for removing heat from the imaging engine or any other devices that generate heat.

#### *Citation of Pertinent References*

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The patent to Zerr discloses Laser Utilizing a Gaseous Lasing Medium and Method for Operating the same, U.S. Patent No. 4612646

The patent to Kleisle et al. discloses Temperature Controller for Gas Laser Resonator, U.S. Patent No. 4740981

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***Communication Information***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phillip Nguyen whose telephone number is 571-272-1947.

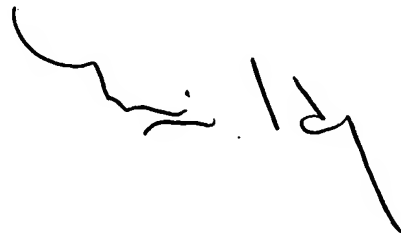
The examiner can normally be reached on 9:00 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MINSUN HARVEY, can be reached on 571-272-1835. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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MINSUN HARVEY  
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